



JAMAL MOHAMED COLLEGE (AUTONOMOUS)

(Affiliated to Bharathidasan University)

TIRUCHIRAPPALLI – 620 020

Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Teaching Plans



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NAAC - SSR IV CYCLE
2.3 Teaching - Learning Process

(2019-2020)

Department of Microbiology

JAMAL MOHAMED COLLEGE (AUTONOMOUS)						
TIRUCHIRAPPALLI- 620 020						
TEACHING PLAN (2019-2020)						
Department	Microbiology	Class	I B.Sc.,	Semester	I	
Subject title	Basic Microbiology	Subject code	17 UMB1C1	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Introduction to Microbiology – History of Microbiology – Contribution of Antony van Leeuwenhoek, Louis Pasteur, Robert Koch, Edward Jenner, Joseph Lister, Winogradsky, Fannie Eilshemius and John Tyndall. Theory of spontaneous generation, Germ theory of disease and Scope of microbiology. Compound Microscope.	Dr.N.Reehana	07	CIA Test-I		
			06	CIA Test-II		
II	Sterilization and Disinfection: Principles- Methods of Sterilization – Physical methods – Dry heat- Moist heat, Filtration (Membrane & HEPA) - Radiation Chemical Sterilization - Chemical agents. Mode of action – Phenol coefficient test- Sterility testing.	A.Fasila Begum	07	CIA Test-I		
			06	CIA Test-II		
III	Cultivation of Microbes - Nutritional requirements, Nutritional Types of bacteria- Phototrophs, Chemotrophs, Autotrophs , Heterotrophs and Obligate parasites. Media preparation -Solid and Liquid- Types of Media – Crude, Semi Synthetic, Synthetic, Enriched, Selective, Differential and Special Type of Media.	A.Fasila Begum	07	CIA Test-I		
			06	CIA Test-II		



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

JAMAL MOHAMED COLLEGE (AUTONOMOUS)

TIRUCHIRAPPALLI- 620 020

TEACHING PLAN (2019-2020)

Department	Microbiology	Class	I B.Sc.,	Semester	I	
Subject title	Basic Microbiology	Subject code	17 UMB1C1	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Introduction to Microbiology – History of Microbiology - Contribution of Antony van Leeuwenhoek, Louis Pasteur, Robert Koch, Edward Jenner, Joseph Lister, Winogradsky, Fannie Eilshemius and John Tyndall. Theory of spontaneous generation, Germ theory of disease and Scope of microbiology. Compound Microscope.	Dr.N.Reehana	07	CIA Test-I		
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			06	CIA Test-II		
III	Cultivation of Microbes - Nutritional requirements, Nutritional Types of bacteria- Phototrophs, Chemotrophs, Autotrophs , Heterotrophs and Obligate parasites. Media preparation -Solid and Liquid- Types of Media – Crude, Semi Synthetic, Synthetic, Enriched, Selective, Differential and Special Type of Media.	A.Fasila Begum	07	CIA Test-I		
			06	CIA Test-II		



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

Department	Microbiology	Class	I B.Sc.,	Semester	I	
Subject title	BASIC MICROBIOLOGY PRACTICAL	Subject code	17 UMB1C2P	No. of hours per week	3	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
1.	Laboratory practice and precautions.	A.Fasila Begum	19	CIA Test-I		
2.	Cleaning of Glass wares.					
3.	Antiseptics and disinfectants.					
4.	Methods of sterilization and testing of sterility- demonstration.					
5.	Culture media preparation – Liquid and Solid medium.					
6.	Enumeration of bacteria from soil.					



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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE
2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI- 620 020

TEACHING PLAN (2019-2020)

Department	MICROBIOLOGY	Class	I B.Sc.,	Semester	I	
Subject title	GENERAL BIOCHEMISTRY	Subject code	17 UMB1A1	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
1.	Carbohydrates: Biological significance, Occurrence, Classification of carbohydrates. Structure of glucose-Straight chain structure and Ring structure. Disaccharides- Maltose, Lactose and Sucrose. Polysaccharides – Glycogen.	Dr.N.Packialakshmi	07	CIA Test-I	Packi	
			06	CIA Test-II		
2.	Amino acids: Classification and properties. Structure, Zwitterion nature. Proteins- Classification. Structure and function. Primary, Secondary, Tertiary and Quaternary structure. Proteolysis, Transamination and Deamination.	K.Vijayalakshmi	07	CIA Test-I	K.V.	
			06	CIA Test-II		
3.	Enzymes: General characteristics. Factors affecting enzyme activity. Regulation of enzyme activity. Enzyme kinetics, Km value, activation and inhibition. Coenzymes and cofactors. Non-protein enzymes. Applications of enzymes.	Dr.N.Packialakshmi	07	CIA Test-I	Packi	
			06	CIA Test-II		
4.	Lipids: Saturated and unsaturated fatty acids. Structure, classification, properties and function of lipids. Distribution and functions of lipids in microorganisms. Beta-oxidation of fatty acid.	A.Fasila Begum	07	CIA Test-I	A.Fasila Begum	
			06	CIA Test-II		



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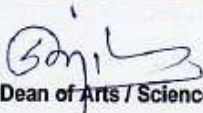
Criterion II - Teaching - Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

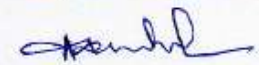
NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
5.	Nucleic acid: Introduction- Nucleotides and their importances - Nucleosides and their importance	Dr.N.Reehana	07	CIA Test-I	<i>N.Reehana</i>	
	Composition, structure and metabolism of nucleic acid.		06	CIA Test-II		


 Signature of the Dean of Arts / Science


 Signature of the Principal


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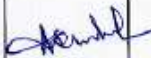
Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI- 620 020 TEACHING PLAN (2019-2020)

Department	MICROBIOLOGY	Class	I B.Sc.,	Semester	I	
Subject title	GENERAL BIOCHEMISTRY PRACTICAL	Subject code	17 UMB1A2P	No. of hours per week	3	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
1.	Qualitative Analysis of Carbohydrates	Dr.A.Khaleel Ahamed	20	CIA Test-I		
2.	Qualitative Analysis of Aminoacids.			CIA Test-I		
3.	Quantitative Analysis of glucose			CIA Test-I		
4.	Estimation of aminoacid - Ninhydrin method.			CIA Test-I		
5.	Estimation of ascorbic acid from biological sample - burette method.		19	CIA Test-II		
6.	Estimation of Protein by Lowry's method.			CIA Test-II		
7.	Estimation of Lipid by Zak's method.			CIA Test-II		
8.	Preparation of phosphate buffer.			CIA Test-II		

Signature of the Dean of Arts / Science

Signature of the Principal

Signature of the HOD / MID



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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

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2.3 Teaching - Learning Process



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (AUTONOMOUS)

TIRUCHIRAPPALLI- 620 020

TEACHING PLAN (2019-2020)

Department	Microbiology	Class	I B.Sc.,	Semester	II	
Subject title	BACTERIOLOGY	Subject code	17 UMB2C3	No. of hours per week	6	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD MID
I	Morphology and fine structure of Bacteria: Size, Shape and Arrangement of Bacterial cells. Bacterial Structures. Flagella and Motility- Hydrodynamics of Flagella, Swimming Motility Without flagella, Gliding Motility. Bacterial Chemotaxis, Pili, Capsules, Sheaths, Prosthecae and Stalks. Gram positive and Gram negative Eubacteria.	Dr.M.Mohamed Mahroop Raja	13	CIA Test-I	M. M. Raja	
II	Structures Internal to the Cell wall: Cell wall, Cytoplasmic Membrane, outer membrane, Protoplast and Spheroplasts, Membranous Intrusions. Intracellular Membrane Systems, Cytoplasm, Cytoplasmic inclusions and Vacuoles and Nuclear Material. Spores (Endospores) and Cysts.	Dr. A. Khaleel Ahamed	13	CIA Test-II	A. Khaleel Ahamed	
			07	CIA Test-I	A. Khaleel Ahamed	
			06	CIA Test-II	A. Khaleel Ahamed	
III	Staining : Stains and Staining reactions – Types of staining – Simple, Differential (Grams, Spore, AFB), Capsule staining, *Nuclear and Flagella staining*. Staining of Actinobacteria, Mycoplasma (PPLO), and Staining of Spirochetes by Fontana's method, Wet mount.	K.Vijayalakshmi	07	CIA Test-I	K. Vijayalakshmi	
			06	CIA Test-II	K. Vijayalakshmi	



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NAAC - SSR IV CYCLE

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TIRUCHIRAPPALLI- 620 020

TEACHING PLAN (2019-2020)

Department	Microbiology	Class	I B.Sc.,	Semester	II	
Subject title	BACTERIOLOGY PRACTICAL	Subject code	17 UMB2C4P	No. of hours per week	3	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
1.	Temporary wet mount (TWM) technique by hay infusion broth.	A.Fasila Begum	20	CIA Test-I	<i>A. Fasila Begum</i>	
2.	Motility of bacteria – Hanging drop technique.					
3.	Media preparation – Selective media and differential media.					
4.	Acid - fast staining.					
5.	Bacterial spore (endospore) staining.					
6.	Capsule staining.					
			19	CIA Test-II		



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JAMAL MOHAMED COLLEGE (AUTONOMOUS)

TIRUCHIRAPPALLI- 620 020

TEACHING PLAN (2019-2020)

Department	MICROBIOLOGY	Class	I B.Sc.,	Semester	II	
Subject title	CELL BIOLOGY	Subject code	17 UMB2A3	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
1.	Introduction to cells: Classification of cell types; Cell theory; Organization of plant and animals cells; Structural comparison of Microbial, Plant and Animal cells.	Dr.N.Reehana	06 05	CIA Test-I CIA Test-II	N.Ren	
2.	Ultra structure of cells: Prokaryotic and Eukaryotic Sub cellular Organization- structure and function of Cytosol, Nucleus, Endoplasmic reticulum and Chloroplast, Mitochondria, Vacuoles, Peroxisomes, lysosome and ribosome#.	Dr.N.Reehana	06 05	CIA Test-I CIA Test-II	N.Ren	
3.	Chromosomes and cell division: Morphology, Structural organization, ultra Structure of chromosome, #specialized chromosomes#. Cell cycle, Mitosis, Meiosis, Cellular senescence and applications.	Dr.N.Reehana Dr.N.Packialakshmi	06 04	CIA Test-I CIA Test-II	N.Ren N.Pa	



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2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

TEACHING PLAN (2019-2020)

Department	Microbiology	Class	I B.Sc.,	Semester	II	
Subject title	CELL BIOLOGY PRACTICAL	Subject code	17 UMB2A4P	No. of hours per week	3	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
1.	Identification of various stages of cell division (mitosis) –Onion.	K.Vijayalakshmi	20	CIA Test-I		
2.	Viability staining technique for bacteria.					
3.	Sectioning of plant stem, root and leaves.					
4.	Microscopic identification of chromosome in chironomous larvae.					
5.	Isolation of Chloroplast.		19	CIA Test-II		
6.	Isolation of Mitochondria					
7.	Permanent slide preparation.					
8.	Microscopic observation of cyanobacteria, Algae, diatoms and amoeba (permanent slide).					

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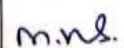
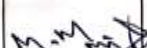
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Criterion II – Teaching – Learning and Evaluation

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NAAC - SSR IV CYCLE
2.3 Teaching - Learning Process

Department of Commerce

JAMAL MOHAMED COLLEGE (Autonomous) TIRUCHIRAPPALLI - 620 020 TEACHING PLAN (2019-2020 EVEN SEM)						
Department	COMMERCE -AIDED	CLASS	I. B.COM I		Semester	II
Subject Title	FINANCIAL ACCOUNTING	SUBJECT CODE	17UCO2C3		No. of hours / week	5
Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
I	Single Entry System - Definition – Salient Features – Limitations – Ascertainment of Profit or Loss - Statement of affairs method – Conversion method - Self Balancing Ledgers – Advantages –Types of Ledgers – Procedure of Self-balancing – Adjustment Accounts.	Dr. MM	13	CIA – I		
II	Branch Accounts: Objects - Types of Branches – Dependent Branches – Accounting treatment in respect of Dependent Branches – Debtors method – Stock and Debtors method only. Departmental Accounting: Meaning – Distinction between Branch and Departmental Accounts – Inter Departmental Transfer.	Dr. HR	13	CIA - I		
III	Royalty Accounts: Royalty - Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Accounting Treatment. Fire Insurance Claims – Methods of claim - Loss of Stock – Average Clause.	Dr. MM & Dr. HR	13	CIA – I & CIA – II		



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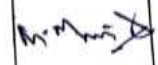
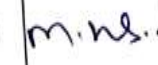
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Criterion II – Teaching – Learning and Evaluation

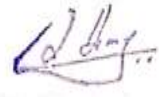
2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
IV	Insolvency Accounts: Meaning – Insolvency of an Individual - Statement of Affairs and Deficiency Account – Distinction between Statement of Affairs and Balance Sheet.	Dr. MM	13	CIA – II		
V	Hire Purchase System – Meaning – Features – Accounting treatment for Hire Purchase System – Calculation of Interest - Default and Repossession. Installment Purchase System – Meaning – Accounting Treatment – Distinction between Hire Purchase and Installment Purchase.	Dr. HR	13	CIA – II		


Signature of the Dean of Arts


Signature of the Principal


Signature of the HOD



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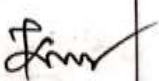
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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TIRUCHIRAPPALLI - 620 020						
TEACHING PLAN (2019-2020 EVEN SEM)						
Department	COMMERCE -AIDED	CLASS	I. B.COM I		Semester	II
Subject Title	BUSINESS MANAGEMENT	SUBJECT CODE	17UC02C4		No. of hours / week	5
Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
I	Management – Meaning, Definition, Features, Levels, Functions and Importance – Management as an Art, Science and Profession – Management and Administration – Contributions to Management Thought – Henry Fayol and F.W Taylor.	Dr. VK	13	CIA – I		
II	Planning - Definition – Nature and Importance – Process – Types of Plans – MBO – Decision-making – Meaning, Importance, Factors and Process – Types of Decisions- Policy – Meaning and Types – Strategy – Meaning and Levels.	Dr. AA	13	CIA - I		
III	Organising - Meaning – Nature and Importance – Principles – Types of Organisation – Line, Staff, Functional and Committee Organisation – Span of Control – Factors - Departmentation – Meaning - Bases – Authority and Responsibility – Delegation, Centralisation and Decentralisation.	Dr. VK & Dr. AA	13	CIA – I & CIA – II		



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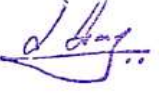
Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
IV	Directing – Meaning and Significance - Leadership – Meaning, Importance and Styles – Qualities of a Leader – Motivation – Meaning, Importance and Theories – Maslow's Need Hierarchy Theory, McGregor's Theory X and Theory Y, Herzberg's Two-factor Theory.	Dr. VK	13	CIA – II		
V	Co-ordinating – Meaning - Nature and Importance – Principles – Steps – Techniques – Controlling – Meaning – Nature and Importance – Steps – Tools – Types of Controls.	Dr. AA	13	CIA – II		


Signature of the Dean of Arts

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NAAC - SSR IV CYCLE
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TIRUCHIRAPPALLI - 620 020

TEACHING PLAN (2019-2020 EVEN SEM)

Department	COMMERCE -AIDED	CLASS	I. B.COM I		Semester	II
Subject Title	PRINCIPLES OF INSURANCE	SUBJECT CODE	17UC02C4		No. of hours / week	5
Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
I	Insurance – Meaning – Definition – Features – Functions – Principles – Types – Importance and Advantages – Re-insurance – Meaning – Characteristics.	Dr. HM	13	CIA – I	G. V. S.	
II	Life Insurance – Meaning – Features – Advantages – Fundamental Principles – Procedure of taking Life Insurance – Classification of Life Insurance Policies – Methods of Premium Calculation.	Dr. HM	13	CIA - I	G. V. S.	
III	Fire Insurance – Meaning and Definition - Features - Method of Premium – Types of Policy– Principles – Procedure of taking Fire Insurance Policy.	Dr. HM	13	CIA – I & CIA – II	G. V. S. G. V. S.	



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Criterion II – Teaching – Learning and Evaluation

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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
IV	Marine Insurance – Definition – Principles – Types - Clauses or Conditions – Types of Policy.	Dr. HM	13	CIA – II	G. V. S.	
V	Miscellaneous Insurance - Motor Vehicle Insurance – Burglary Insurance – Key man Insurance – Insurance Regulatory and Development Authority of India – Objectives – Functions - Powers.	Dr. HM	13	CIA – II	G. V. S.	

Signature of the Dean of Arts

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NAAC - SSR IV CYCLE
2.3 Teaching - Learning Process

JAMAL MOHAMED COLLEGE (Autonomous)

TIRUCHIRAPPALLI - 620 020

TEACHING PLAN (2019-2020 EVEN SEM)

Department	COMMERCE -AIDED	CLASS	I. B.COM II		Semester	II
Subject Title	FINANCIAL ACCOUNTING	SUBJECT CODE	17UCO2C3		No. of hours / week	5
Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
I	Single Entry System - Definition – Salient Features – Limitations – Ascertainment of Profit or Loss - Statement of affairs method – Conversion method - Self Balancing Ledgers – Advantages –Types of Ledgers – Procedure of Self-balancing – Adjustment Accounts.	Dr. MR	13	CIA – I	M. N. S.	
II	Branch Accounts: Objects - Types of Branches – Dependent Branches – Accounting treatment in respect of Dependent Branches – Debtors method – Stock and Debtors method only. Departmental Accounting: Meaning – Distinction between Branch and Departmental Accounts – Inter Departmental Transfer.	Dr. HR	13	CIA - I	M. N. S.	
III	Royalty Accounts: Royalty - Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Accounting Treatment. Fire Insurance Claims – Methods of claim - Loss of Stock – Average Clause.	Dr. MM & Dr. HR	13	CIA – I & CIA – II	M. N. S. M. N. S.	



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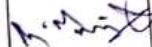
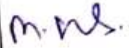
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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
IV	Insolvency Accounts: Meaning – Insolvency of an Individual - Statement of Affairs and Deficiency Account – Distinction between Statement of Affairs and Balance Sheet.	Dr. MM	13	CIA – II		
V	Hire Purchase System – Meaning – Features – Accounting treatment for Hire Purchase System – Calculation of Interest - Default and Repossession. Installment Purchase System – Meaning – Accounting Treatment – Distinction between Hire Purchase and Installment Purchase.	Dr. HR	13	CIA – II		


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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process



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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

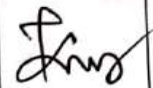
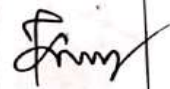
NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020 EVEN SEM)

Department	COMMERCE -AIDED	CLASS	I. B.COM II		Semester	II
Subject Title	BUSINESS MANAGEMENT	SUBJECT CODE	17UC02C4		No. of hours / week	5
Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
I	Management – Meaning, Definition, Features, Levels, Functions and Importance – Management as an Art, Science and Profession – Management and Administration – Contributions to Management Thought – Henry Fayol and F.W Taylor.	Dr. VK	13	CIA – I		
II	Planning - Definition – Nature and Importance – Process – Types of Plans – MBO – Decision-making – Meaning, Importance, Factors and Process – Types of Decisions- Policy – Meaning and Types – Strategy – Meaning and Levels.	Dr. AA	13	CIA - I		
III	Organising - Meaning – Nature and Importance – Principles – Types of Organisation – Line, Staff, Functional and Committee Organisation – Span of Control – Factors - Departmentation – Meaning - Bases – Authority and Responsibility – Delegation, Centralisation and Decentralisation.	Dr. VK & Dr. AA	13	CIA – I & CIA – II		



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Criterion II - Teaching - Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics	Name of the teaching staff with initial	No. of hours required for completion	Completion before CIA	Signature of the staff	Remarks of HOD
IV	Directing - Meaning and Significance - Leadership - Meaning, Importance and Styles - Qualities of a Leader - Motivation - Meaning, Importance and Theories - Maslow's Need Hierarchy Theory, McGregor's Theory X and Theory Y, Herzberg's Two-factor Theory.	Dr. VK	13	CIA - II		
V	Co-ordinating - Meaning - Nature and Importance - Principles - Steps - Techniques - Controlling - Meaning - Nature and Importance - Steps - Tools - Types of Controls.	Dr. AA	13	CIA - II		


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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE
2.3 Teaching - Learning Process

Department of Computer Science

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TEACHING PLAN (2019-2020)

Department	COMPUTER SCIENCE	Class	I B.Sc	Semester	I	
Subject title	Programming in C	Subject code	17UCS1C1	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	History of C – Importance of C – Basic Structure of C Programs – Constants, Variables and (Data Types – Operators and Expressions – # Managing Input and Output Operations #.)	A. JAGMOHAMMED DEEN, MO JAFAR (MJ)	6 6	CIA TEST I	MO JAFAR	
II	(Decision Making and Branching – Decision Making with IF Statement – Simple IF Statement – The IF ... ELSE Statement – Nesting of IF ... ELSE Statements – # The ELSE IF Ladder #) (The Switch Statement – The ?: Operator – The GOTO Statement – Decision Making and Looping – The WHILE Statement – The DO Statement – The FOR Statement.)	MJ	6 6	CIA TEST I	MO JAFAR	
III	(Arrays – One-Dimensional Arrays – Two-Dimensional Arrays – Multi-dimensional Arrays – Character Arrays and Strings) – (Declaring and Initializing String Variables – Reading and Writing Strings – Arithmetic Operations on Characters – Comparison of Two Strings – # String-handling Functions #.)	MJ	6 6	CIA TEST II	MO JAFAR	



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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	User-Defined Functions – Function Declaration – Category of Functions – Nesting of Functions – Recursion – Storage Classes – Structures and Union – Arrays of Structures – Arrays within Structures – # Structures within Structures # – Structures and Functions – Unions.	AJ	12	CIA-I		
V	Pointers – Pointer Declaration – Pointer Expression – Pointers and Arrays – Pointers and Character Strings – Array of Pointers – Pointers to Function – File Management – Defining and Opening a File – Closing a File – Input / Output Operations on Files – Error Handling During I/O operations – Random Access to Files – # Command Line Arguments #.	AJ	8	CIA-II		
		MJ	9	CIA TEST II		

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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

Department	COMPUTER SCIENCE	Class	I B.Sc	Semester	I	
Subject title	Value Education	Subject code	17UCNIVE	No. of hours per week	2	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Purpose and philosophy of life basic needs,safety measures,ethics,wisdom of perfection stages.law of nature unified force,cause and effect system.education nonviolence,five fold moral culture,protecting nature.	S.SYED IBRAHIM (SI)	5			
II	Greatness of life force and mind maintain youthfulness, bio_magnetism and body,food_transformation into seven minerals reasons for hunger circular movement of live force,mind_development of mind in ten stages,mental frequency meditation benefits.		5	CIA -I		
III	Individual qualities indian culture four structures spiritually guided young age,family life,introspection analysis of thought,six roots for thoughts,introspection for analysis of thoughts,practical technique for analysis of thoughts service.desire moralization of desire		6			



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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	analysis of desire, anger, definition, neutralization of anger, method of neutralization of anger, benefits of blessings, greatness of friendship, love and compassion. Human rights introduction, definition of human rights and duties, nature of human rights, characteristics of human rights, functional principles of human rights, historical backgrounds of human rights, classification of human rights. Theories of human rights, theory of natural rights, legal theory of rights, historical theory of rights, social theory of rights, economic theory of rights and human duties.	SI	5	CIA - II		
V	Anti corruption, corruption causes, anticorruption measure in India, CBI, Santhanam committee's recommendations, CVC (Central Vigilance Commission) function, LOKPAL bill 2001, Lokayukta, right to information act, features and advantages.		5			

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Criterion II – Teaching – Learning and Evaluation

2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

Department	COMPUTER SCIENCE	Class	II B.Sc	Semester	III	
Subject title	DATABASE MANAGEMENT SYSTEMS	Subject code	17UCS3C5	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA/Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Introduction: Flat File – Database System – Database – Actionable for DBA – The Entity – Relationship Model: The Entity Relationship Model – Data Models: Relational Approach – The Hierarchical Approach – The Network Approach	M. ABDULLAH MA	10	CIA – TEST-I.	M. Abdullah	
II	Storage Structure: File Organization and Addressing Schemes – Sequential Organization – Indexed Sequential Organization – Direct Organization of File – Interface Indexing – Hashing Scheme of File Organization – Dynamic Hashing Technique – Insertion Scheme in Dynamic Hashing – B-Trees – Indexing Methods – Relational Data Structure: Introduction – Relations – Domains.		12	TEST-I.		
III	Normalization : Purpose of Normalization – Definition of Functional Dependence (FD) – Normal Forms – First Normal Form – # Second Normal Form # – Third Normal Form – Boyce Codd Normal Form (BCNF).		5 5	TEST-II TEST-II		



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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

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2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Structured Query Language: Features of SQL – Select SQL Operations – Grouping the Output of the Query – Querying form Multiple Tables – Retrieval Using Set Operators – Nested Queries – T-SQL – Triggers and Dynamic Execution: Transact-SQL.	M. ABDULLAH MA	10	CIA TEST-II	M. Abdullah	
V	Procedural Language-SQL: PL/SQL Block Structure – PL/SQL Tables – Cursor Management and Advanced PL/SQL: Opening and Closing a Cursor – Processing Explicit Cursor – Implicit Cursor – Exception Handlers – Sub Programs in PL/SQL – # Functions # – Precaution While Using PL/SQL Functions – Stored Packages – Dropping Procedure, Function and Package – Triggers – Object-Oriented Technology.		10	TEST-II		

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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

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2.3 Teaching - Learning Process



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

Department	COMPUTER SCIENCE	Class	III B.Sc	Semester	V	
Subject title	JAVA PROGRAMMING	Subject code	17UCS5C9	No. of hours per week	6	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Fundamentals of Object Oriented Programming – Java Evolution – Overview of Java Language – Constants, Variables and Data types – Operators and Expressions – Branching and Looping Statements.	SAS	18	CIA I		
II	Classes, Objects and Methods – Defining a Class – Creating Objects – Constructors – Method Overloading – Static Members – Inheritance: Extending a Class – Overriding Methods – Final Classes – Abstract Methods and Classes – Visibility Control – Arrays, Strings and Vectors: Onedimensional Arrays: Creating an Array – Two-dimensional Arrays – Strings – Vectors – Wrapper Classes – // Enumerated Types //	(M. MOHAMMED SWAPATHEN) MMS	15	CIA I + CIA II		
III	Interfaces: Multiple Inheritance : Defining Interfaces – Extending Interfaces – Implementing Interfaces – Accessing Interface Variables – Packages : Java API Package – Creating and Accessing Packages – Hiding Classes – Multithreaded Programming: Creating Threads – Extending the Thread Class – Stopping and Blocking a Thread – Life Cycle of a Thread – Using Thread Methods – // Thread Exceptions // – Thread Priority	(S. ARON JAYAM) SAS + MMS	15	CIA I + CIA II		



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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Managing Errors and Exceptions: Types of Errors - Exceptions - Syntax of Exception Handling Code - Multiple Catch Statements - Using Finally Statement - Throwing our own Exceptions - Managing Input/Output Files in Java - Stream Classes - Character Stream, Byte Stream - Using Streams - # Using the File Classes # - Input / Output Exceptions - Creation of Files - Reading / Writing Characters - Reading/Writing Bytes - Handling Primitive Data Types - Random Access Files	SAS	15	CIA - II		
V	Applet Programming: How Applets differ from Applications - Building Applet Code - Applet Life Cycle - Creating an Executable Applet - Applet Tag - Adding Applet to HTML File - Running the Applet - Passing Parameters to Applets - Displaying Numerical Values - Getting Input from the User - Graphics Programming - The Graphics Class	SAS	15	CIA - II		

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2.3.4. Preparation and adherence to Academic Calendar and Teaching Plans by the institution

NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

Department	COMPUTER SCIENCE	Class	III B.Sc	Semester	V	
Subject title	COMPUTER ORGANIZATION AND ARCHITECTURE	Subject code	17UCS5C11	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Number Systems – Decimal, Binary, Octal and Hexadecimal Systems – Conversion from one system to another – Addition, Subtraction, Multiplication and Division of Binary, Octal and Hexadecimal Numbers – Binary Codes – 8421, 2421, Excess-3, Gray – Weighted and Non-weighted codes, Reflected Code, Self-complementary Codes – # BCD Codes # – Alphanumeric Codes.	Dr. G. RAJ (GR) Dr. F. ABDOUS RAZAK (AR)	13	CIA-I		
II	Basic Logic Gates – Universal Logic – Boolean Laws and Theorems – Boolean Expressions – Sum of Products – Product of Sums – Simplification of Boolean Expressions – Karnaugh Map Method (up to 4 Variables) – Implementation of Boolean Expressions using Gate Networks.		13			
III	Combinational Circuits – Multiplexers – Demultiplexers – Decoders – Encoders – Arithmetic Building Blocks – Half and Full Adders – Half and Full Subtractors – Parallel adder – 2's Complement Adder-Subtractor.		13	CIA-II		



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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
IV	Sequential Circuits – Flip Flops – RS, Clocked RS, D, JK, T and Master-Slave Flip Flops – Shift Register – # Counters # – Asynchronous and Synchronous counters – Mod n Counter – Ring Counter.		12			
V	Register Transfer and Micro Operations: Register Transfer Language – Register Transfer – Arithmetic Micro operations – # Logic Micro operations # – Arithmetic Logic Unit – Central Processing Unit: General Register Organization – # Stack Organization # – Instruction Formats – Addressing Modes – Data Transfer and Manipulation.		14	CIA-II		

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2.3 Teaching - Learning Process



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2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

Department	COMPUTER SCIENCE	Class	III B.Sc	Semester	V	
Subject title	OPERATING SYSTEMS	Subject code	17UCS5C12	No. of hours per week	5	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	Operating System Overview – Basic Concepts and Terminologies – Operating System as Resource Manager – # Process View Point # – Hierarchical and Extended Machine View – I/O Programming and Interrupt Programming – I/O Programming – Interrupt Structure and Processing.	Di9	13	CIA-I	Di9	
II	Memory Management – Single Contiguous Allocation – Multiprogramming – Partitioned Allocation – Relocatable Partitioned Memory Management – Paged Memory Management – # Page Removal Algorithms # – Thrashing – Segmented Memory Management – Segmented and Demand Paged Memory Management.	Di9	13	CIA-II	Di9	
III	Process Management – Process State Model – Job Scheduling – Process Scheduling – Multiprocessor Systems – Process Synchronization – # Resolving Deadlocks #.	1. Dr. D. I. George A. Analaletthum. 2. Dr. A. R. Mohamed Sharavass (A.R.S)	13	CIA-I	A. Analaletthum	



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2.3 Teaching - Learning Process

IV	Device Management - Techniques - Device Characteristics - I/O Traffic Controller - I/O Scheduler and Device Handlers - Virtual Devices - # Spooling #.		13	CIA-I CIA-II	
V	Information Management: File System Model - Symbolic, Basic File System - # Access Control Verification # - Logical, Physical File System - Allocation Strategy, Device Strategy Modules.	DIG ARS	13	CIA-II	


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NAAC - SSR IV CYCLE

2.3 Teaching - Learning Process

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TEACHING PLAN (2019-2020)

Department	COMPUTER SCIENCE	Class	IMCA	Semester	I	
Subject title	C PROGRAMMING LAB	Subject code	17MCA1C6P	No. of hours per week	4	
Unit	Topics to be taught	Name of the teaching staff with initials	No. of hours required for completion	Completion before CIA Test-I/II	Signature of the staff member	Remarks of HOD / MID
I	a) Program to convert Fahrenheit degrees into Centigrade degrees. b) Program to find sum of digits of a given number. c) Program to determine area of circle and volume of a cube.	D. I George	4			
II	a) Program to find whether the given number is odd or even (if ... else) b) Program to find the smallest of three given numbers (nested if-elses) c) Program to find the greatest of three given numbers (conditional operators)	Amalambalan (D14)	4	CIA TEST		
III	a) Program to find the factorial value of any given number (while loop)	OA Mohamed Jafar (M3)	4	I		
IV	b) Program to calculate the sum of odd numbers between 1 and 100 (do-while loop) a) Program to print all prime numbers from 1 to 100 (nested while, break)		4			
	b) Program to find total and average for the given 10 values. (for loop)	AIG	4			
V	Menu driven Program which has the following options (using switch): 1. Leap year or not 2. Prime or not 3.					



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2.3 Teaching - Learning Process

VI	Armstrong number or not 4. Exit a) Program to calculate the area of a triangle for the given lengths of the sides. (Function) b) Generate first 20 terms of a Fibonacci sequence (Recursion)	4	C1 & TEST I	Signature of the HOD / MID
VII	a) Program to add and multiply two given matrices (arrays) b) Program to find the largest and smallest number in an mxn matrix. (arrays)	4		
VIII	a) Program to swap two given numbers (pointers) b) Program to sort a set of names stored in an array in alphabetical order.	4		
IX	a) Program to find arithmetic mean of two numbers (Macros) b) Program to convert a uppercase alphabet to lowercase (Macros)	4 2	C1 & TEST II	
X	Program to display five students mark details (Array of structures)	4		
XI	a) Program to count the characters, spaces, tabs, and newlines in a file. b) Program to copy the contents of a file into another file, character by character.	2		
XII	Program to prepare pay slip of an employee (using files)	4		

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